PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Complete If Known Application Number 10/723,501 Filing Date Nov. 26, 2003 First Named Inventor Halbert, Alan P. Art Unit 2831 Examiner Name Attorney Docket Number AH2

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (7 known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Retevant Passages or Relevant Figures Appear
100		US- 6,100,469	08-08-2000	Jorgensen et al.	Fig. 2
100		US- RE 38,120	05-20-2003	Bordwell et al.	
108		US- RE 34,603	05-10-1994	Caison et al.	
100		^{US-} RE 33,147	01-16-1990	Reiker	
100		^{US-} 6,602,079	08-05-2003	Chiriku et al.	
LOB		^{US-} 6,600,102 B1	07-29-2003	Wu	
128	·	^{US-} 6,598,846	07-29-2003	Lackey, Jr.	
176		^{US-} 6,597,129	07-22-2003	Newman	
150		^{US-} 6,595,664	07-22-2003	Bucher et al.	
RB		^{US-} 6,595,479	07-22-2003	Johnson et al.	
100		^{US-} 6,595,476	07-22-2003	Edwards	
158		^{US-} 6,590,155	07-08-2003	Vrame et al.	
RB		^{US-} 6,588,920	07-08-2003	Agro	
100		^{US-} 6,588,711	07-08-2003	Onishi	
RB		^{US-} 6,586,679	07-01-2003	Bashford	
100		^{US-} 6,586,672	07-01-2003	Kobus et al.	
RO		^{US-} 6,582,106	06-24-2003	Jamison	
100		^{US-} 6,578,321	06-17-2003	Layne	
120		^{US-} 6,573,446	06-03-2003	Umstead et al.	

	FOREIGN PATENT DOCUMENTS Examiner Cite Foreign Patent Document Publication Name of Patentee or Pages, Columns, Lines,								
	Cite No.1	Foreign Patent Document	eign Patent Document Publication Dete		Peges, Columns, Lines, Where Relevant Passages				
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Substitute for form 1449/PTO	Complete if Known		
	Application Number	10/723,501	
INFORMATION DISCLOSURE	Filing Date	Nov. 26, 2003	
	First Named Inventor	Halbert, Alan P.	
Statement by applicant	Art Unit	2831	
(Use as many sheets as necessary)	Examiner Name		
Sheet 2 of 6	Attorney Docket Number	AH2	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (F Account)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LCD		^{US-} 6,545,216	04-08-2003	Bell et al.	
LDB		^{US-} 6,541,720	04-01-2003	Gerald et al.	
158		US-6,517,216	02-11-2003	Cercone et al.	•
100		^{US-} 6,513,959	02-04-2003	Serizawa et al.	
128		^{US-} 6,505,960	01-14-2003	Schubert et al.	
100		^{US-} 6,503,099	01-07-2003	Kerr Jr.	
400		US- 6,501,021	12-31-2002	Whitener et al.	
100		US- 6,494,682	12-17-2002	Blateri et al.	
128		^{US-} 6,491,270	12-10-2002	Pfaller	
108		^{US-} 6,465,736	10-15-2002	Spadaro	
LOB		US- 6,394,857	05-28-2002	Crochet	
100		^{US-} 6,355,883	03-12-2002	Gretz	
158		^{US-} 6,303,859	10-16-2001	Reiker	
156		US- 6,291,768	09-18-2001	Reiker	
100		US- 6,281,439	08-28-2001	Reiker	
100		US- 6.242,696	06-05-2001	Reiker	
مى		^{US-} 6,207,898	03-27-2001	Reiker	
100		^{US-} 6,207,897	03-27-2001	Reiker	
158		^{US-} 6,207,894	03-27-2001	Reiker	

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
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				Application Number	10/723,501	
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				First Named Inventor	Halbert, Alan P.	
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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.		MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevan
		Number-Kind Code ^{2 (7 known)}			Figures Appear
168		^{US-} 6,204,450	03-20-2001	Reiker	
100		^{US-} 6,198,045	03-06-2001	Roesch	
A.S.		^{US-} 6,191,362	02-20-2001	Gretz	
100		^{US-} 6,173,935	01-16-2001	Gretz	
RS		^{US-} 6,152,413	11-28-2000	Gretz	
108		^{US-} 6,107,568	08-22-2000	Schnell et al.	
156		US- 6,098,945	08-08-2000	Korcz	
100		^{US-} 6,096,974	08-01-2000	Reiker	
100		^{US-} 6,095,660	08-01-2000	Moriyama et al.	
100		^{US-} 6,036,154	03-14-2000	Pearce	
130		^{US-} 5,988,421	11-23-1999	Jorgensen	
100		^{US-} 5,981,874	11-09-1999	Reiker	
100		^{US-} 5,965,845	10-12-1999	Reiker	
100		US- 5,954,304	09-21-1999	Jorgensen	
150		US- 5,950,853	09-14-1999	Jorgensen	
1708		^{US-} 5,947,436	09-07-1999	Bucher et al.	
100		^{US-} 5,939,671	08-17-1999	Gretz	
100		^{US-} 5,909,006	06-01-1999	Reiker	
RS		^{US-} 5,883,331	03-16-1999	Reiker	

	FOREIGN PATENT DOCUMENTS Examiner Cite Foreign Patent Document Publication Name of Patentee or Pages, Columns, Lines,							
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Substitute for form 1449/PTO	Complete if Known		
	Application Number	10/723,501	
INFORMATION DISCLOSURE	Filing Date	Nov. 26, 2003	
	First Named Inventor	Halbert, Alan P.	
Statement by applicant	Art Unit	2831	
(Use as many sheets as necessary)	Examiner Name		
Sheet 4 of 6	Attorney Docket Number	AH2	

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
IIIIIIIIII	140.	Number-Kind Code ^{2 (F Incom)}	MAN-OD-1111	Approxim or oned bocument	
108		^{US-} 5,860,548	01-19-1999	Kerr, Jr.	
		^{US-} 5,857,581	01-12-1999	Jorgensen	
		^{US-} 5,845,886	12-08-1998	McCormick	
		^{US-} 5,824,952	10-20-1998	Bordwell et al.	
		^{US-} 5,710,392	01-20-1998	Bordweil et al.	
		^{US-} 5,661,264	08-26-1997	Reiker	
1		US- 5,628,418	05-13-1997	Deschamps et al.	
13		us- 5,619,263	04-08-1997	Laughlin et al.	
		^{US-} 5,606,147	02-25-1997	Deschamps et al.	
		^{US-} 5,592,788	01-14-1997	Corridon	
		^{US-} 5,522,577	06-04-1996	Roesch	
		^{US-} 5,505,420	04-09-1996	Brown	
		^{US-} 5,503,359	04-02-1996	Patterson	
100		^{US-} 5,435,514	07-25-1995	Kerr Jr.	
W		us- 5,423,507	06-13-1995	Florent et al.	
LET		^{US-} 5,407,088	04-18-1995	Jorgensen et al.	
ISP		^{US-} 5,393,026	02-28-1995	Deschamps et al.	
100		^{US-} 5,234,119	08-10-1993	Jorgensen et al.	
150		^{US-} 5,183,233	02-02-1993	LaPalomento	

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	e Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
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			U. S. PATENT	T DOCUMENTS	
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LCB	_	US- 5,085,392	02-04-1992	Perna	
<u> </u>					
	<u> </u>	US- 5,044,582	09-03-1991	Walters	
		us- 5,024,412	06-18-1991	Hung et al.	
		^{US-} 5,009,383	04-23-1991	Chapman	
		^{US-} 4,988,067	01-29-1991	Propp et al.	
		^{US-} 4,954,667	09-04-1990	Jorgensen et al.	
CB		US-4,919,292	04-24-1990	Hsu	
409		^{US-} 4,909,405	03-20-1990	Kerr Jr.	
1		^{US-} 4,892,211	01-09-1990	Jorgensen	
		^{US-} 4,880,128	11-14-1990	Jorgensen	
		^{US-} 4,874,905	10-17-1989	Schnell et al.	
		^{US-} 4,788,383	11-29-1988	Caison	
		^{US-} 4,684,092	08-04-1987	Reiker	
		^{US-} 4,666,055	05-19-1987	Lewis	
T		us-4,645,158	02-24-1987	Manning	
T(B)		^{US-} 4,538,786	09-03-1985	Manning	
		^{US-} 4,513,994	04-30-1985	Dover et al.	
		^{US-} 4,513,940	04-30-1985	Alperin et al.	
LOB		US-4,494,296	01-22-1985	Grimes	

		FOREI	GN PATENT DOCU	MENTS		
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	Information disclosure Statement by applicant				First Named Inventor	Halbert, Alan P.		
	S 1				Art Unit	2831		
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-	Sheet	6	of	6 .	Attorney Docket Number	AH2		

				DOCUMENTS	
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		Number-Kind Code ^{2 (F Impan)}			. 192.00 / 4002
100		^{US-} 4,463,923	08-07-1984	Reiker	
		^{US-} 4,410,160	10-18-1983	Alperin et al.	
		^{US-} 4,405,111	09-20-1983	Lennon	
		^{US-} 4,357,506	11-02-1982	Breining	
		^{US-} 4,062,512	12-13-1977	Arnold	
		^{US-} 4,050,603	09-27-1977	Harris et al.	
		^{US-} 3,987,992	10-26-1976	Foflygen	
		US- 3,828,315	04-15-1975	Blush	
		^{US-} 3,724,795	04-03-1973	Callanan	
1960		^{US-} 3,474,994	10-28-1969	Swanquist	
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